

Jin-Long Yang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

503
papers

28,709
citations

89
h-index

150
g-index

533
ext. papers

33,296
ext. citations

7.9
avg, IF

7.63
L-index

#	Paper	IF	Citations
503	In Situ Low-Temperature Growth and Superior Luminescent Property of Well-Aligned, High-Quality Cubic CsPbBr ₃ Micrometer-Scale Single Crystal Arrays on Transparent Conductive Substrates.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 1114-1122	6.4	0
502	CN/ScCl ₃ Weak van der Waals Heterostructure: A Promising Visible-Light-Driven -Scheme Water Splitting Photocatalyst with Interface Ultrafast Carrier Recombination.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 1473-1479	6.4	4
501	The Journal of Physical Chemistry C Virtual Special Issue on Energy and Catalysis in China. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 2301-2306	3.8	
500	Mixed magnetic edge states in graphene quantum dots. <i>Multifunctional Materials</i> , 2022 , 5, 014001	5.2	
499	Computational characterization of nanosystems. <i>Chinese Journal of Chemical Physics</i> , 2022 , 35, 1-15	0.9	
498	Schottky and Ohmic Contacts at HgTe/2D Metal Interfaces. <i>ACS Applied Electronic Materials</i> , 2022 , 4, 1082-1088	4	2
497	Theoretical design of two-dimensional visible light-driven photocatalysts for overall water splitting. <i>Chemical Physics Reviews</i> , 2022 , 3, 011310	4.4	1
496	Single-molecule field effect and conductance switching driven by electric field and proton transfer.. <i>Science Advances</i> , 2022 , 8, eabm3541	14.3	5
495	High-Throughput Computational Screening for Bipolar Magnetic Semiconductors.. <i>Research</i> , 2022 , 2022, 9857631	7.8	0
494	Promoting Water Activation by Photogenerated Holes in Monolayer CN.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 3332-3337	6.4	0
493	Molecular Design of Two-Dimensional Covalent Heptazine Frameworks for Photocatalytic Overall Water Splitting under Visible Light.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 13, 3949-3956	6.4	1
492	High-performance photocatalytic nonoxidative conversion of methane to ethane and hydrogen by heteroatoms-engineered TiO ₂ .. <i>Nature Communications</i> , 2022 , 13, 2806	17.4	7
491	KSSOLV 2.0: An efficient MATLAB toolbox for solving the Kohn-Sham equations with plane-wave basis set. <i>Computer Physics Communications</i> , 2022 , 108424	4.2	2
490	Understanding Single-Atom Catalysis in View of Theory.. <i>Jacs Au</i> , 2021 , 1, 2130-2145		16
489	Two-dimensional bipolar magnetic semiconductors with high Curie-temperature and electrically controllable spin polarization realized in exfoliated Cr(pyrazine) ₂ monolayers. <i>Science China Chemistry</i> , 2021 , 64, 2212	7.9	4
488	Designing Two-Dimensional Versatile Room-Temperature Ferromagnets via Assembling Large-Scale Magnetic Quantum Dots. <i>Nano Letters</i> , 2021 , 21, 9816-9823	11.5	5
487	Improving the Activity of Electrocatalysts toward the Hydrogen Evolution Reaction, the Oxygen Evolution Reaction, and the Oxygen Reduction Reaction via Modification of Metal and Ligand of Conductive Two-Dimensional Metal-Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 11652-11658	6.4	6

486	High Curie Temperature and Intrinsic Ferromagnetic Half-Metallicity in MnX (X = S, Se, Te) Nanosheets. <i>Journal of Physical Chemistry Letters</i> , 2021 , 11790-11794	6.4	2
485	First-Principles Calculations of Room-Temperature Antiferromagnetism in Crystalline Transition-Metal Borate Nanosheets: Implications for Spintronics Applications. <i>ACS Applied Nano Materials</i> , 2021 , 4, 10877-10885	5.6	1
484	Nodal-loop half metallicity in a two-dimensional FeN pentagon crystal with room-temperature ferromagnetism. <i>Nanoscale</i> , 2021 , 13, 19493-19499	7.7	3
483	Two-Dimensional Giant Tunable Rashba Semiconductors with Two-Atom-Thick Buckled Honeycomb Structure. <i>Nano Letters</i> , 2021 , 21, 740-746	11.5	15
482	Capturing the Electron-Phonon Renormalization in Molecules from First-Principles. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 2682-2689	2.8	1
481	Assessment of the Mass Factor for the Electron-Phonon Coupling in Solids. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 6479-6485	3.8	1
480	A single-molecule electrical approach for amino acid detection and chirality recognition. <i>Science Advances</i> , 2021 , 7,	14.3	9
479	Orbital Design of Two-Dimensional Transition-Metal Peroxide Kagome Crystals with Anionogenic Dirac Half-Metallicity. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 3528-3534	6.4	1
478	2D Heterostructured Nanofluidic Channels for Enhanced Desalination Performance of Graphene Oxide Membranes. <i>ACS Nano</i> , 2021 , 15, 7586-7595	16.7	25
477	Efficient Direct Band Gap Photovoltaic Material Predicted Via Doping Double Perovskites Cs ₂ AgBiX ₆ (X = Cl, Br). <i>Journal of Physical Chemistry C</i> , 2021 , 125, 10868-10875	3.8	10
476	Generated High-Valent Iron Single-Atom Catalyst for Efficient Oxygen Evolution. <i>Nano Letters</i> , 2021 , 21, 4795-4801	11.5	17
475	Hybrid MPI and OpenMP parallel implementation of large-scale linear-response time-dependent density functional theory with plane-wave basis set. <i>Electronic Structure</i> , 2021 , 3, 024004	2.6	0
474	An efficient adaptive variational quantum solver of the Schrödinger equation based on reduced density matrices. <i>Journal of Chemical Physics</i> , 2021 , 154, 244112	3.9	3
473	Efficient interlayer charge release for high-performance layered thermoelectrics. <i>National Science Review</i> , 2021 , 8, nwaa085	10.8	9
472	High performance computing of DGDFT for tens of thousands of atoms using millions of cores on Sunway TaihuLight. <i>Science Bulletin</i> , 2021 , 66, 111-119	10.6	5
471	Efficient parallel linear scaling method to get the response density matrix in all-electron real-space density-functional perturbation theory. <i>Computer Physics Communications</i> , 2021 , 258, 107613	4.2	2
470	Formation of Plasmonic Polarons in Highly Electron-Doped Anatase TiO ₂ . <i>Nano Letters</i> , 2021 , 21, 430-436	11.5	3
469	Single Mo1(W1, Re1) atoms anchored in pyrrolic-N3 doped graphene as efficient electrocatalysts for the nitrogen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6547-6554	13	11

468	Strain-Stabilized Metastable Face-Centered Tetragonal Gold Overlayer for Efficient CO Electroreduction. <i>Nano Letters</i> , 2021 , 21, 1003-1010	11.5	15
467	Doping dependence of electronic structure of infinite-layer NdNiO ₂ . <i>Physical Review B</i> , 2021 , 103,	3.3	10
466	CrSbS monolayer: a potential phase transition ferromagnetic semiconductor. <i>Nanoscale</i> , 2021 , 13, 14067-14072	7.1	7
465	Determining structural and chemical heterogeneities of surface species at the single-bond limit. <i>Science</i> , 2021 , 371, 818-822	33.3	32
464	Probing intramolecular vibronic coupling through vibronic-state imaging. <i>Nature Communications</i> , 2021 , 12, 1280	17.4	15
463	Tunable Rashba Spin Splitting in Two-Dimensional Polar Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 1932-1939	6.4	4
462	Raman Detection of Bond Breaking and Making of a Chemisorbed Up-Standing Single Molecule at Single-Bond Level. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 1961-1968	6.4	8
461	Two-level iterative solver for linear response time-dependent density functional theory with plane wave basis set. <i>Journal of Chemical Physics</i> , 2021 , 154, 064101	3.9	3
460	Thickness Dependent Magnetic Transition in Few Layer 1T Phase CrTe. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 6847-6851	6.4	6
459	Electric-Field Tunable Magnetism in van der Waals Bilayers with A-Type Antiferromagnetic Order: Unipolar versus Bipolar Magnetic Semiconductor. <i>Nano Letters</i> , 2021 , 21, 7050-7055	11.5	6
458	Realizing Effective Cubic-Scaling Coulomb Hole Plus Screened Exchange Approximation in Periodic Systems via Interpolative Separable Density Fitting with a Plane-Wave Basis Set. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 7545-7557	2.8	4
457	An efficient nanocluster catalyst for Sonogashira reaction. <i>Journal of Catalysis</i> , 2021 , 401, 206-213	7.3	3
456	Unveiling the full reaction path of the Suzuki-Miyaura cross-coupling in a single-molecule junction. <i>Nature Nanotechnology</i> , 2021 , 16, 1214-1223	28.7	13
455	Equation-of-Motion Theory to Calculate Accurate Band Structures with a Quantum Computer. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 8833-8840	6.4	2
454	An efficient implementation of spin-orbit coupling within the framework of semiempirical orthogonalization-corrected methods for ultrafast intersystem crossing dynamics. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 22313-22323	3.6	2
453	A rationally designed two-dimensional MoSe/TiCO heterojunction for photocatalytic overall water splitting: simultaneously suppressing electron-hole recombination and photocorrosion. <i>Chemical Science</i> , 2021 , 12, 2863-2869	9.4	26
452	Spin-Orbit Coupling in 2D Semiconductors: A Theoretical Perspective.. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 12256-12268	6.4	6
451	Low-Rank Approximations Accelerated Plane-Wave Hybrid Functional Calculations with k-Point Sampling.. <i>Journal of Chemical Theory and Computation</i> , 2021 ,	6.4	6

450	Designing Direct Z-Scheme Heterojunctions Enabled by Edge-Modified Phosphorene Nanoribbons for Photocatalytic Overall Water Splitting.. <i>Journal of Physical Chemistry Letters</i> , 2021 , 1-11	6.4	5
449	Precise Spin Manipulation of Single Molecule Positioning on Graphene by Coordination Chemistry. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 9819-9827	6.4	3
448	Photogenerated-Carrier Separation and Transfer in Two-Dimensional Janus Transition Metal Dichalcogenides and Graphene van der Waals Sandwich Heterojunction Photovoltaic Cells. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 4070-4079	6.4	23
447	Electronic and magnetic structure of infinite-layer NdNiO ₂ : trace of antiferromagnetic metal. <i>Npj Quantum Materials</i> , 2020 , 5,	5	38
446	Tunable n-type and p-type doping of two-dimensional layered PdSevia organic molecular adsorption. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 12973-12979	3.6	5
445	Two-Dimensional Multifunctional Metal-Organic Frameworks with Simultaneous Ferro-/Ferrimagnetism and Vertical Ferroelectricity. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 4193-4197	6.4	14
444	Direct bandgap engineering with local biaxial strain in few-layer MoS ₂ bubbles. <i>Nano Research</i> , 2020 , 13, 2072-2078	10	10
443	Interpolative Separable Density Fitting Decomposition for Accelerating Hartree-Fock Exchange Calculations within Numerical Atomic Orbitals. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 5664-5674	2.8	8
442	Halogen modified two-dimensional covalent triazine frameworks as visible-light driven photocatalysts for overall water splitting. <i>Science China Chemistry</i> , 2020 , 63, 1134-1141	7.9	17
441	Structural Oscillation Revealed in Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12140-12145	16.4	27
440	The Moving-Grid Effect in the Harmonic Vibrational Frequency Calculations with Numeric Atom-Centered Orbitals. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 2897-2906	2.8	2
439	The dynamic parallel distribution algorithm for hybrid density-functional calculations in HONPAS package. <i>Computer Physics Communications</i> , 2020 , 254, 107204	4.2	2
438	Two-dimensional CaN as a one-dimensional electride [CaN] ₂ with ultrahigh conductance. <i>Nanoscale</i> , 2020 , 12, 5578-5586	7.7	1
437	Tunable Rashba spin splitting in Janus transition-metal dichalcogenide monolayers charge doping.. <i>RSC Advances</i> , 2020 , 10, 6388-6394	3.7	25
436	Creation of the Dirac Nodal Line by Extrinsic Symmetry Engineering. <i>Nano Letters</i> , 2020 , 20, 2157-2162	11.5	1
435	A Simple Molecular Design Strategy for Two-Dimensional Covalent Organic Framework Capable of Visible-Light-Driven Water Splitting. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4508-4516	16.4	92
434	Atomic-Level Construction of Tensile-Strained PdFe Alloy Surface toward Highly Efficient Oxygen Reduction Electrocatalysis. <i>Nano Letters</i> , 2020 , 20, 1403-1409	11.5	50
433	Low-cost alternatives to the Bethe-Salpeter equation: Towards simple hybrid functionals for excitonic effects in solids. <i>Physical Review Research</i> , 2020 , 2,	3.9	18

432	Parallel Implementation of Large-Scale Linear Scaling Density Functional Theory Calculations With Numerical Atomic Orbitals in HONPAS. <i>Frontiers in Chemistry</i> , 2020 , 8, 589910	5	0
431	Implementation of Laplace Transformed MP2 for Periodic Systems With Numerical Atomic Orbitals. <i>Frontiers in Chemistry</i> , 2020 , 8, 589992	5	3
430	Steric Hindrance Effect in High-Temperature Reactions. <i>CCS Chemistry</i> , 2020 , 2, 460-467	7.2	13
429	Module Replacement of Gold Nanoparticles by a Pseudo-AGR Process. <i>Acta Chimica Sinica</i> , 2020 , 78, 407	3.3	9
428	Are pyridinium ylides radicals?. <i>Chemical Communications</i> , 2020 , 56, 11287-11290	5.8	2
427	Molecular molds for regularizing Kondo states at atom/metal interfaces. <i>Nature Communications</i> , 2020 , 11, 2566	17.4	10
426	Low-threshold amplification of spontaneous emission from AgInS ₂ quantum dots. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 8515-8520	7.1	3
425	Oscillation of Work Function during Reducible Metal Oxide Catalysis and Correlation with the Activity Property. <i>ChemCatChem</i> , 2020 , 12, 85-89	5.2	1
424	Accelerating Excitation Energy Computation in Molecules and Solids within Linear-Response Time-Dependent Density Functional Theory via Interpolative Separable Density Fitting Decomposition. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 964-973	6.4	10
423	Interfacial Hydrogen-Bonding Dynamics in Surface-Facilitated Dehydrogenation of Water on TiO(110). <i>Journal of the American Chemical Society</i> , 2020 , 142, 826-834	16.4	14
422	Atomic-level insights into strain effect on p-nitrophenol reduction via Au@Pd core-shell nanocubes as an ideal platform. <i>Journal of Catalysis</i> , 2020 , 381, 427-433	7.3	18
421	Simulating Periodic Systems on a Quantum Computer Using Molecular Orbitals. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 6904-6914	6.4	3
420	Machine Learning K-Means Clustering Algorithm for Interpolative Separable Density Fitting to Accelerate Hybrid Functional Calculations with Numerical Atomic Orbitals. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 10066-10074	2.8	9
419	Highly efficient heterojunction solar cells enabled by edge-modified tellurene nanoribbons. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 28414-28422	3.6	4
418	Sub-nanometre resolution in single-molecule photoluminescence imaging. <i>Nature Photonics</i> , 2020 , 14, 693-699	33.9	69
417	Me-graphene: a graphene allotrope with near zero Poisson's ratio, sizeable band gap, and high carrier mobility. <i>Nanoscale</i> , 2020 , 12, 19359-19366	7.7	13
416	Realizing CsPbBr ₃ Light-Emitting Diode Arrays Based on PDMS Template Confined Solution Growth of Single-Crystalline Perovskite. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 8275-8282	6.4	10
415	Ion-molecule reactions catalyzed by a single gold atom. <i>Chemical Science</i> , 2020 , 11, 8502-8505	9.4	1

4 ¹⁴	Proposed mechanical method for switching the spin transport channel in two-dimensional magnetic metal-magnetic semiconductor van der Waals contacts. <i>Nanoscale Horizons</i> , 2020 , 5, 1496-1499	10.8	2
4 ¹³	Modulating oxygen coverage of TiCT MXenes to boost catalytic activity for HCOOH dehydrogenation. <i>Nature Communications</i> , 2020 , 11, 4251	17.4	35
4 ¹²	Identifying the Molecular Orientation and Clusters in the Liquid-Vapor Interface of 1-Propanol by Time-Delayed Mass Spectrometry. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7510-7516	6.4	4
4 ¹¹	One-Dimensional Magnetic Order Stabilized in Edge-Reconstructed MoS Nanoribbon via Bias Voltage. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7531-7535	6.4	6
4 ¹⁰	The static parallel distribution algorithms for hybrid density-functional calculations in HONPAS package. <i>International Journal of High Performance Computing Applications</i> , 2020 , 34, 159-168	1.8	2
4 ⁰⁹	Large-Spin-Gap Nodal-Line Half-Metal and High-Temperature Ferromagnetic Semiconductor in Cr ₂ X ₃ (X=O,S,Se) Monolayers. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900490	6.4	15
4 ⁰⁸	Descriptor-Based Design Principle for Two-Dimensional Single-Atom Catalysts: Carbon Dioxide Electroreduction. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3481-3487	6.4	34
4 ⁰⁷	The Contacts of the Monolayer Semiconductor C ₂ N with 2D Metal Electrodes. <i>Advanced Theory and Simulations</i> , 2019 , 2, 1800161	3.5	8
4 ⁰⁶	Unconventional p-d Hybridization Interaction in PtGa Ultrathin Nanowires Boosts Oxygen Reduction Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18083-18090	16.4	107
4 ⁰⁵	Atomically dispersed iron hydroxide anchored on Pt for preferential oxidation of CO in H. <i>Nature</i> , 2019 , 565, 631-635	50.4	260
4 ⁰⁴	Ion Conductivity Enhancement in Anti-Spinel Li ₃ OBr with Intrinsic Vacancies. <i>Advanced Theory and Simulations</i> , 2019 , 2, 1800138	3.5	9
4 ⁰³	Fcc versus Non-fcc Structural Isomerism of Gold Nanoparticles with Kernel Atom Packing Dependent Photoluminescence. <i>Angewandte Chemie</i> , 2019 , 131, 4558-4562	3.6	9
4 ⁰²	Fcc versus Non-fcc Structural Isomerism of Gold Nanoparticles with Kernel Atom Packing Dependent Photoluminescence. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4510-4514	16.4	36
4 ⁰¹	Proposal of a stable B ₃ S nanosheet as an efficient hydrogen evolution catalyst. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3752-3756	13	22
4 ⁰⁰	Transition-Metal Diboride: A New Family of Two-Dimensional Materials Designed for Selective CO ₂ Electroreduction. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 16294-16299	3.8	25
399	Spin-Crossover and Coherent Transport Behaviors of a Six-Coordinate Iron(II) Complex with a N ₄ O ₂ Donor Set. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 16366-16372	3.8	9
398	Electrically Driven Single-Photon Superradiance from Molecular Chains in a Plasmonic Nanocavity. <i>Physical Review Letters</i> , 2019 , 122, 233901	7.4	32
397	Toward Room-Temperature Magnetic Semiconductors in Two-Dimensional Ferrimagnetic Organometallic Lattices. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2439-2444	6.4	21

396	Room-temperature magnetism and tunable energy gaps in edge-passivated zigzag graphene quantum dots. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	19
395	Room temperature electrofreezing of water yields a missing dense ice phase in the phase diagram. <i>Nature Communications</i> , 2019 , 10, 1925	17.4	13
394	Single Mo1(Cr1) Atom on Nitrogen-Doped Graphene Enables Highly Selective Electroreduction of Nitrogen into Ammonia. <i>ACS Catalysis</i> , 2019 , 9, 3419-3425	13.1	170
393	Highly-efficient heterojunction solar cells based on two-dimensional tellurene and transition metal dichalcogenides. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7430-7436	13	54
392	Electronic and magnetic properties of CoPc and FePc molecules on graphene: the substrate, defect, and hydrogen adsorption effects. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 5424-5434	3.6	10
391	Room-Temperature Ferromagnetism in Transition Metal Embedded Borophene Nanosheets. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4417-4421	6.4	20
390	Significantly Enhanced Charge Separation in Rippled Monolayer Graphitic C ₃ N ₄ . <i>ChemCatChem</i> , 2019 , 11, 6252-6257	5.2	8
389	Computational Design of One-Dimensional Ferromagnetic Semiconductors in Transition Metal Embedded Stannaspherene Nanowires. <i>Chinese Journal of Chemistry</i> , 2019 , 37, 1021-1024	4.9	3
388	Dynamic oxygen adsorption on single-atomic Ruthenium catalyst with high performance for acidic oxygen evolution reaction. <i>Nature Communications</i> , 2019 , 10, 4849	17.4	194
387	Tunable Schottky and Ohmic contacts in graphene and tellurene van der Waals heterostructures. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 23611-23619	3.6	14
386	Spin Selection Rule in Single-Site Catalysis of Molecular Oxygen Adsorption on Transition-Metal Phthalocyanines. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 28158-28167	3.8	1
385	Tuning Electronic Structure and Lattice Diffusion Barrier of Ternary Pt ₁ H ₁ Ni for Both Improved Activity and Stability Properties in Oxygen Reduction Electrocatalysis. <i>ACS Catalysis</i> , 2019 , 9, 11431-11437	13.1	21
384	Quasi PdNi single-atom surface alloy catalyst enables hydrogenation of nitriles to secondary amines. <i>Nature Communications</i> , 2019 , 10, 4998	17.4	48
383	Visually constructing the chemical structure of a single molecule by scanning Raman picoscopy. <i>National Science Review</i> , 2019 , 6, 1169-1175	10.8	51
382	Revealing Charge- and Temperature-Dependent Movement Dynamics and Mechanism of Individual Molecular Machines. <i>Small Methods</i> , 2019 , 3, 1900464	12.8	12
381	The Synthesis of Chiral Ag ₄ Pd ₂ (SR) ₈ by Nonreplaced Galvanic Reaction. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1900003	3.1	10
380	Control of highly anisotropic electrical conductance of tellurene by strain-engineering. <i>Nanoscale</i> , 2019 , 11, 21775-21781	7.7	8
379	Spin-flip excitations induced by dehydrogenation in a magnetic single-molecule junction. <i>Journal of Chemical Physics</i> , 2019 , 151, 224704	3.9	4

378	Realizing Two-Dimensional Magnetic Semiconductors with Enhanced Curie Temperature by Antiaromatic Ring Based Organometallic Frameworks. <i>Journal of the American Chemical Society</i> , 2019 , 141, 109-112	16.4	46
377	Identification of single-atom active sites in carbon-based cobalt catalysts during electrocatalytic hydrogen evolution. <i>Nature Catalysis</i> , 2019 , 2, 134-141	36.5	409
376	Construction of direct Z-Scheme photocatalysts for overall water splitting using two-dimensional van der waals heterojunctions of metal dichalcogenides. <i>Journal of Computational Chemistry</i> , 2019 , 40, 980-987	3.5	34
375	Competitive Transient Electrostatic Adsorption for In Situ Regeneration of Poisoned Catalyst. <i>ChemCatChem</i> , 2019 , 11, 1179-1184	5.2	0
374	Azide Passivation of Black Phosphorus Nanosheets: Covalent Functionalization Affords Ambient Stability Enhancement. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 1479-1483	16.4	79
373	Kernel Tuning and Nonuniform Influence on Optical and Electrochemical Gaps of Bimetal Nanoclusters. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3487-3490	16.4	61
372	Direct observation of single-molecule hydrogen-bond dynamics with single-bond resolution. <i>Nature Communications</i> , 2018 , 9, 807	17.4	56
371	Atomistic Simulations of Graphene Growth: From Kinetics to Mechanism. <i>Accounts of Chemical Research</i> , 2018 , 51, 728-735	24.3	20
370	Water Confined in Nanocapillaries: Two-Dimensional Bilayer Squarelike Ice and Associated Solid-Liquid-Solid Transition. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 6704-6712	3.8	21
369	Pressure-induced organic topological nodal-line semimetal in the three-dimensional molecular crystal Pd(ddd)2. <i>Physical Review B</i> , 2018 , 97,	3.3	16
368	Coronoid nanographene C216 as hydrogen purification membrane: A density functional theory study. <i>Carbon</i> , 2018 , 135, 112-117	10.4	3
367	Light-Induced Type-II Band Inversion and Quantum Anomalous Hall State in Monolayer FeSe. <i>Physical Review Letters</i> , 2018 , 120, 156406	7.4	18
366	A short review of nanographenes: structures, properties and applications. <i>Molecular Physics</i> , 2018 , 116, 987-1002	1.7	8
365	First-Principles Study on Layered CN-Metal Interfaces. <i>Langmuir</i> , 2018 , 34, 2647-2653	4	10
364	Is the kernel-staples match a key-lock match?. <i>Chemical Science</i> , 2018 , 9, 2437-2442	9.4	37
363	Surface alloy engineering in 2D trigonal lattice: giant Rashba spin splitting and two large topological gaps. <i>New Journal of Physics</i> , 2018 , 20, 023041	2.9	6
362	A high performance catalyst for methane conversion to methanol: graphene supported single atom Co. <i>Chemical Communications</i> , 2018 , 54, 2284-2287	5.8	37
361	The roles of buckled geometry and water environment in the excitonic properties of graphitic CN. <i>Nanoscale</i> , 2018 , 10, 3738-3743	7.7	14

360	Regulation of Coordination Number over Single Co Sites: Triggering the Efficient Electroreduction of CO. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1944-1948	16.4	607
359	Ambipolar Half-Metallicity in One-Dimensional Metal(1,2,4,5-Benzenetetramine) Coordination Polymers via Carrier Doping. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 989-994	3.8	21
358	Regulation of Coordination Number over Single Co Sites: Triggering the Efficient Electroreduction of CO ₂ . <i>Angewandte Chemie</i> , 2018 , 130, 1962-1966	3.6	176
357	A new phase of the two-dimensional ReS ₂ sheet with tunable magnetism. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 1248-1254	7.1	21
356	Spatial and thickness dependence of coupling interaction of surface states and influence on transport and optical properties of few-layer BiSe ₃ . <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 065503	1.8	2
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